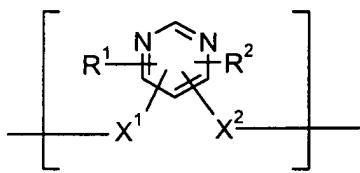


In the claims:

1. (withdrawn) A polymer comprising a repeating unit of the formula

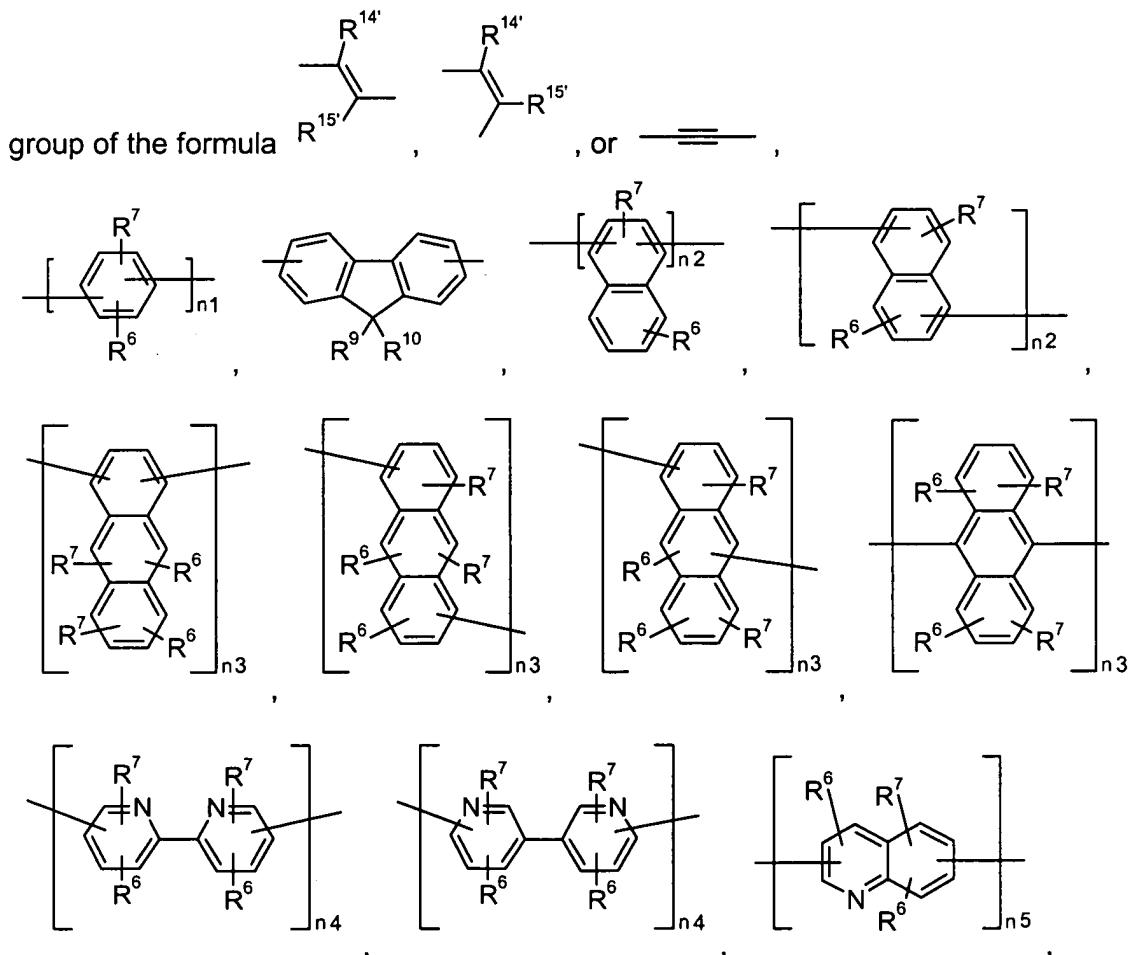


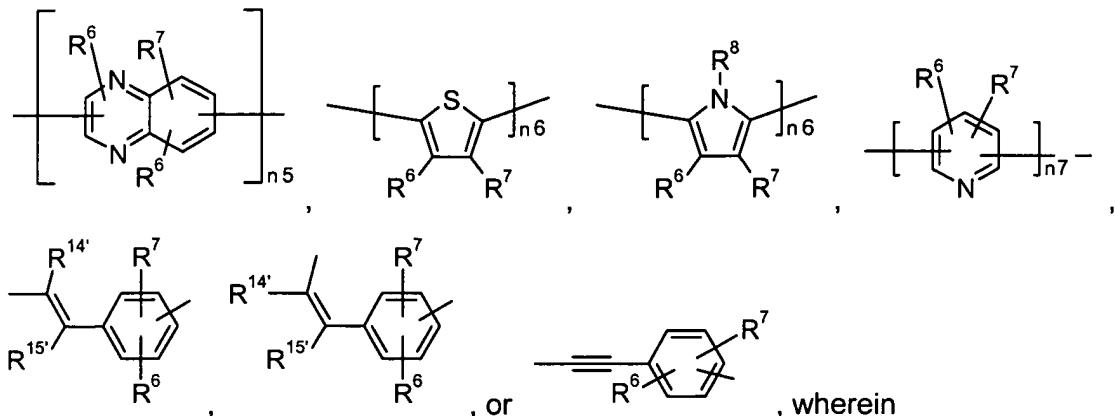
(I); wherein

R¹ is C₆-₂₄aryl or C₂-₂₀ heteroaryl each of which optionally can be substituted, and R² is H,

X¹ and X² are independently of each other a divalent linking group.

2. (withdrawn) A polymer according to claim 1, wherein X¹ and X² are independently of each other a





n1, n2, n3, n4, n5, n6 and n7 are integers of 1 to 10, R⁶ and R⁷ are independently of each other H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₅-C₁₂cycloalkyl, C₅-C₁₂cycloalkyl, which is substituted by E, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, C₇-C₂₅aralkyl, or -CO-R²⁸,

R⁸ is C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, or C₇-C₂₅aralkyl,

R⁹ and R¹⁰ are independently of each other C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, or C₇-C₂₅aralkyl, or

R⁹ and R¹⁰ form a ring, which may optionally be substituted by R⁶,

R^{14'} and R^{15'} are independently of each other H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, or C₂-C₂₀heteroaryl which is substituted by E,

D is -CO-, -COO-, -S-, -SO-, -O-, -NR²⁵-, -SiR³⁰R³¹-, -POR³²-, -CR²³=CR²⁴-, or -C≡C-, and E is -OR²⁹, -SR²⁹, -NR²⁵R²⁶, -COR²⁸, -COOR²⁷, -CONR²⁵R²⁶, -CN, -OCOOR²⁷, or halogen, wherein

R²³, R²⁴, R²⁵ and R²⁶ are independently of each other H, C₆-C₁₈aryl, C₆-C₁₈aryl which is substituted by C₁-C₁₈alkyl, C₁-C₁₈alkoxy, C₁-C₁₈alkyl, or C₁-C₁₈alkyl which is interrupted by -O-, or

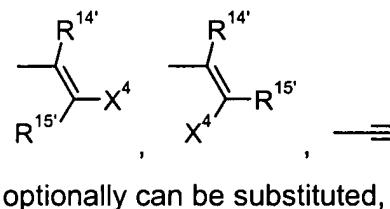
R²⁵ and R²⁶ together form a five or six membered ring, R²⁷ and R²⁸ are independently of each other H, C₆-C₁₈aryl, C₆-C₁₈aryl which is substituted by C₁-C₁₈alkyl, or C₁-C₁₈alkoxy, C₁-C₁₈alkyl, or C₁-C₁₈alkyl which is interrupted by -O-,

R^{29} is H, C_6 - C_{18} aryl, C_6 - C_{18} aryl, which is substituted by C_1 - C_{18} alkyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkyl, or C_1 - C_{18} alkyl which is interrupted by $-O-$,

R^{30} and R^{31} are independently of each other C_1 - C_{18} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{18} alkyl, and

R^{32} is C_1 - C_{18} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{18} alkyl.

3. (withdrawn) A polymer according claim 2, wherein R^1 and R^2 are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D,

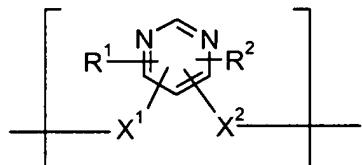


, X^5 , C_7 - C_{25} aralkyl, C_6 - C_{24} aryl or C_2 - C_{20} heteroaryl, which optionally can be substituted,

X^4 is C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, which optionally can be substituted,

X^5 is C_1 - C_{18} alkyl, C_6 - C_{24} aryl, C_6 - C_{24} aryl substituted by $-OC_1$ - C_{18} alkyl or $-OC_6$ - C_{24} aryl.

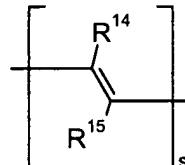
4. (currently amended) A polymer according to claim 1, comprising a repeating unit of the formula



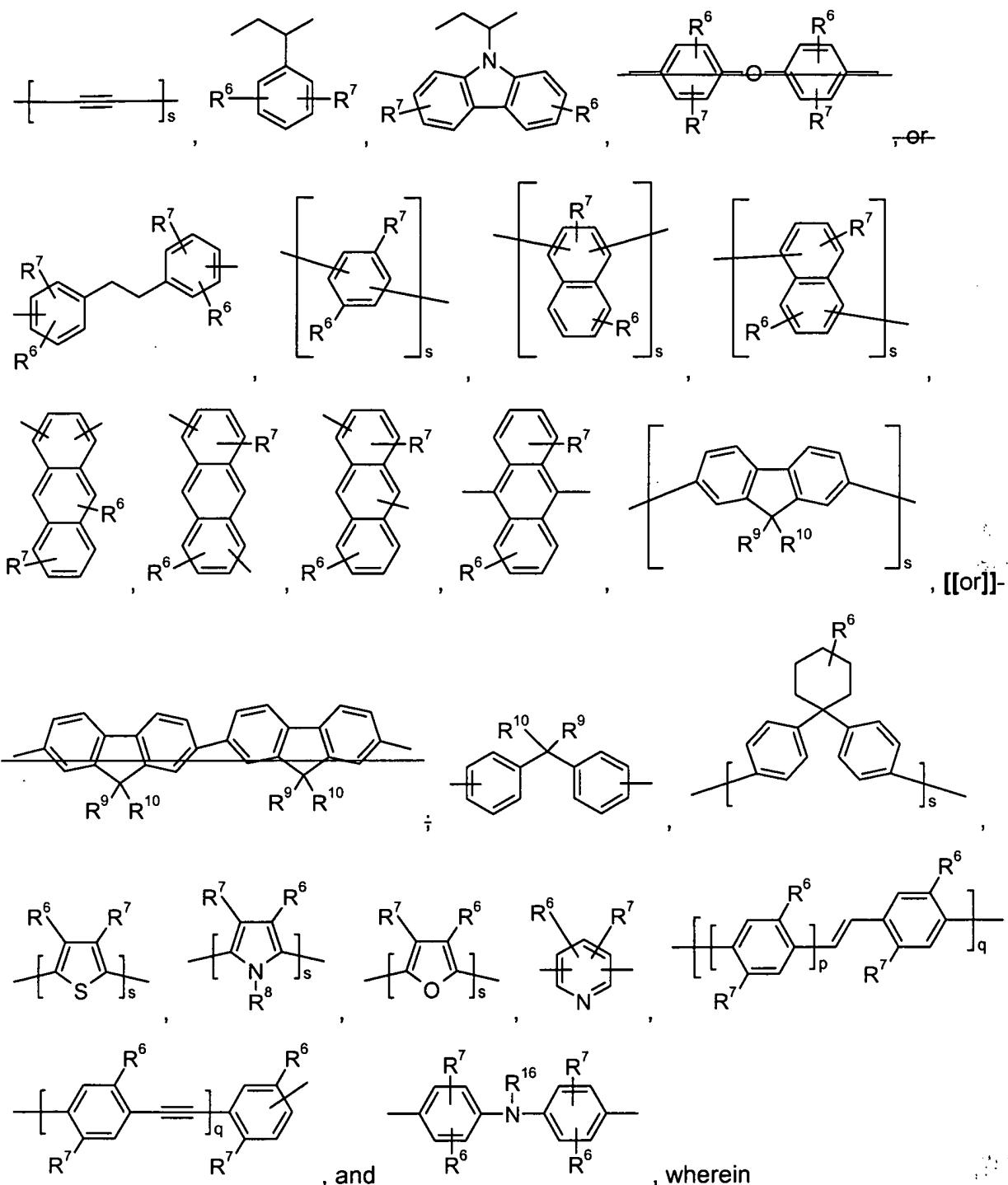
(I); wherein

R^1 and R^2 , are independently of each other an organic substituent, is C_{6-24} aryl or C_{2-20} heteroaryl each of which optionally can be substituted, and R^2 is H,

X^1 and X^2 are independently of each other a divalent linking group which co-polymer also



comprises a co-monomer T which is selected from the group consisting of



R^{16} is H, C_6 - C_{18} aryl, C_6 - C_{18} aryl which is substituted by C_1 - C_{18} alkyl, C_1 - C_{18} alkyl, C_7 - C_{25} aralkyl, or C_1 - C_{18} alkyl which is interrupted by $-O-$,

p is an integer from 1 to 10,

q is an integer from 1 to 10,

s is an integer from 1 to 10,

R⁶ and R⁷ are independently of each other H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₅-C₁₂cycloalkyl, C₅-C₁₂cycloalkyl, which is substituted by E, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, C₇-C₂₅aralkyl, or -CO-R²⁸,

R⁸ is C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, or C₇-C₂₅aralkyl,

R⁹ and R¹⁰ are independently of each other C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, or C₇-C₂₅aralkyl, or

R⁹ and R¹⁰ form a five- or six-membered ring, which may optionally be substituted by R⁶,

R^{14'} and R^{15'} are independently of each other H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, or C₂-C₂₀heteroaryl which is substituted by E,

D is -CO-, -COO-, -S-, -SO-, -SO₂-, -O-, -NR²⁵-, -SiR³⁰R³¹-, -POR³²-, -CR²³=CR²⁴-, or -C≡C-, and E is -OR²⁹, -SR²⁹, -NR²⁵R²⁶, -COR²⁸, -COOR²⁷, -CONR²⁵R²⁶, -CN, -OCOOR²⁷, or halogen, wherein

R²³, R²⁴, R²⁵ and R²⁶ are independently of each other H, C₆-C₁₈aryl, C₆-C₁₈aryl which is substituted by C₁-C₁₈alkyl, C₁-C₁₈alkoxy, C₁-C₁₈alkyl, or C₁-C₁₈alkyl which is interrupted by -O-, or

R²⁵ and R²⁶ together form a five or six membered ring, R²⁷ and R²⁸ are independently of each other H, C₆-C₁₈aryl, C₆-C₁₈aryl which is substituted by C₁-C₁₈alkyl, or C₁-C₁₈alkoxy, C₁-C₁₈alkyl, or C₁-C₁₈alkyl which is interrupted by -O-,

R²⁹ is H, C₆-C₁₈aryl, C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl, C₁-C₁₈alkoxy, C₁-C₁₈alkyl, or C₁-C₁₈alkyl which is interrupted by -O-,

R³⁰ and R³¹ are independently of each other C₁-C₁₈alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl, and

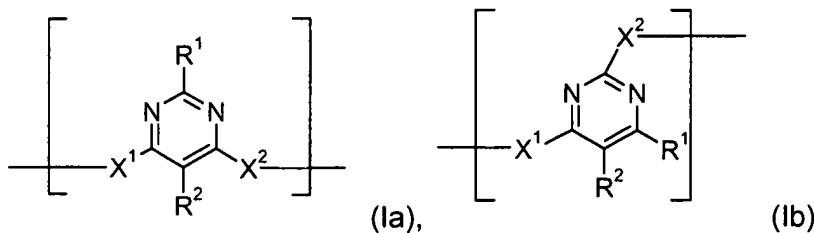
R³² is C₁-C₁₈alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl,
or

R⁹ and R¹⁰ together form a group of formula =CR¹⁰⁰R¹⁰¹, wherein

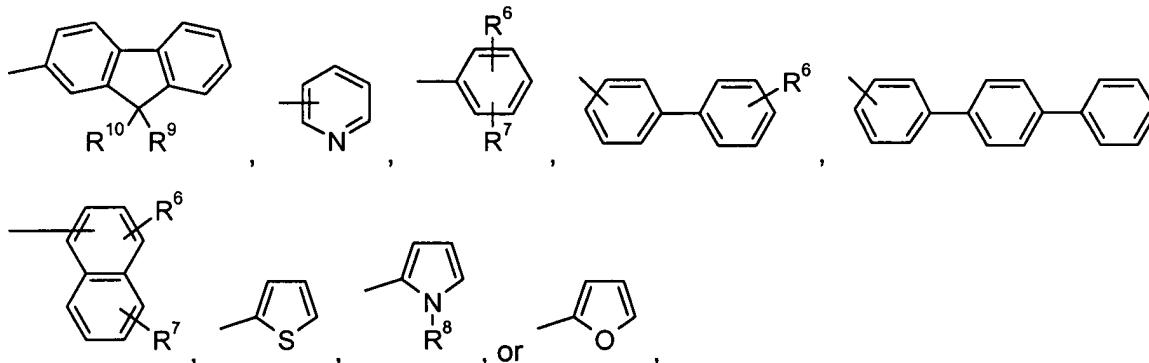
R^{100} and R^{101} are independently of each other H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, or C₂-C₂₀heteroaryl, or C₂-C₂₀heteroaryl which is substituted by E, and

R^{14} and R^{15} are independently of each other H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, or C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E.

5. (withdrawn) A polymer according to claim 1, comprising repeating units of formula Ia or Ib,



wherein R¹ is a group of formula



wherein R² is H,

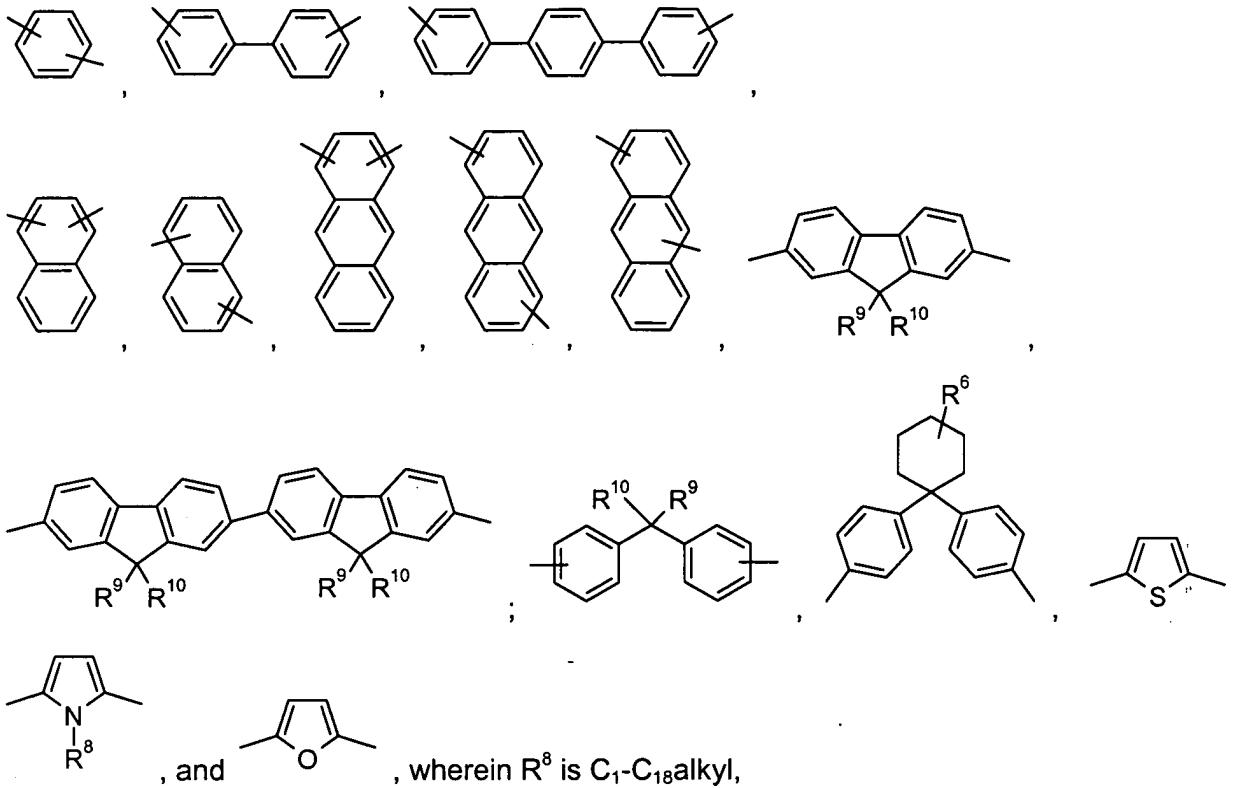
R⁶ and R⁷ are independently of each other H, C₁-C₁₂alkyl, C₅-C₁₂cycloalkyl, C₆-C₂₄aryl, which can be substituted by -O-C₁-C₁₂alkyl, or C₁-C₁₈alkoxy,

R⁸ is C₁-C₁₈alkyl, C₁-C₁₈alkyl interrupted by one or two oxygen atoms, or C₆-C₁₂aryl, which optionally can be substituted by C₁-C₁₂alkyl, or C₁-C₁₂alkoxy,

R⁹ and R¹⁰ are independently of each other H, C₁-C₁₂alkyl, or C₁-C₁₂alkoxy,

R⁹ and R¹⁰ are independently of each other C₁-C₁₈alkyl, especially C₄-C₁₂alkyl, which can be interrupted by one or two oxygen atoms.

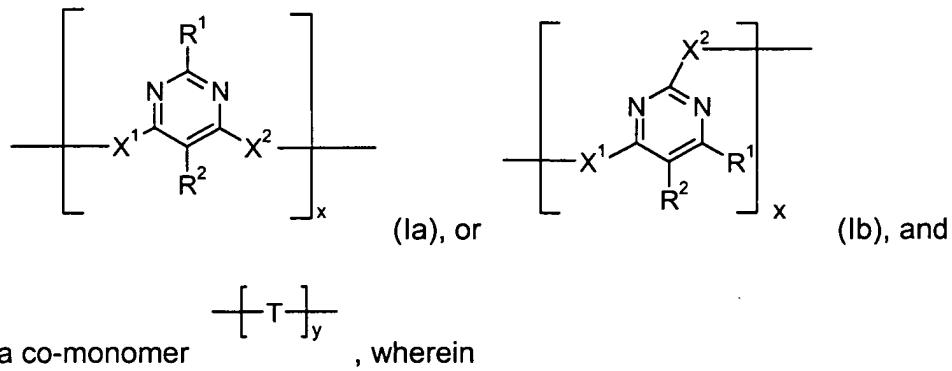
6.(previously presented) A polymer according to claim 4, comprising a co-monomer T which is selected from the group consisting of



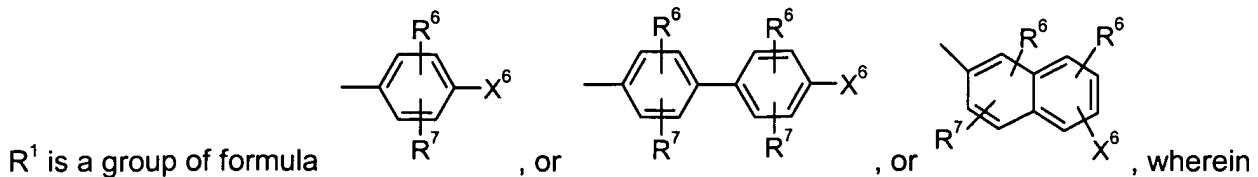
R^9 and R^{10} are independently of each other C₁-C₁₈alkyl, which can be interrupted by one or two oxygen atoms, or

R^9 and R^{10} form a five or six membered carbocyclic ring, which optionally can be substituted by $C_1\text{-}C_8$ alkyl.

7. (currently amended) A polymer according to claim 4, comprising a repeating unit of formula

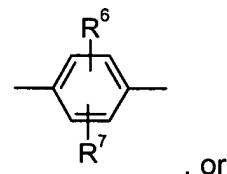


x is in the range of ~~0.005 to 1~~ 0.4 to 0.6, and y is in the range of ~~0.995 to 0~~ 0.6 to 0.4, wherein the sum of x and y is 1,

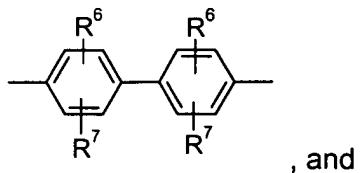


X^6 is H, C₁-C₁₈alkyl, cyclohexyl, or C₁-C₁₈alkoxy,

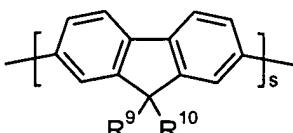
R^2 is H,



X^1 and X^2 are independently of each other a group of formula



, and



T is a group of formula , wherein s is one or two, and R^9 and R^{10} are independently of each other C₁-C₁₈alkyl, which can be interrupted by one or two oxygen atoms, and

R^6 and R^7 are independently of each other H, C₁-C₁₂alkyl, C₅-C₁₂cycloalkyl, C₆-C₂₄aryl, which can be substituted by -O-C₁-C₁₂alkyl, or C₁-C₁₈alkoxy.

8-11. (cancelled)

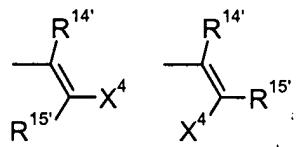
12. (withdrawn) An optical device or a component therefore, comprising a substrate and a polymer according to claim 1.

13 .(withdrawn) An optical device according to claim 12, wherein the optical device comprises an electroluminescent device.

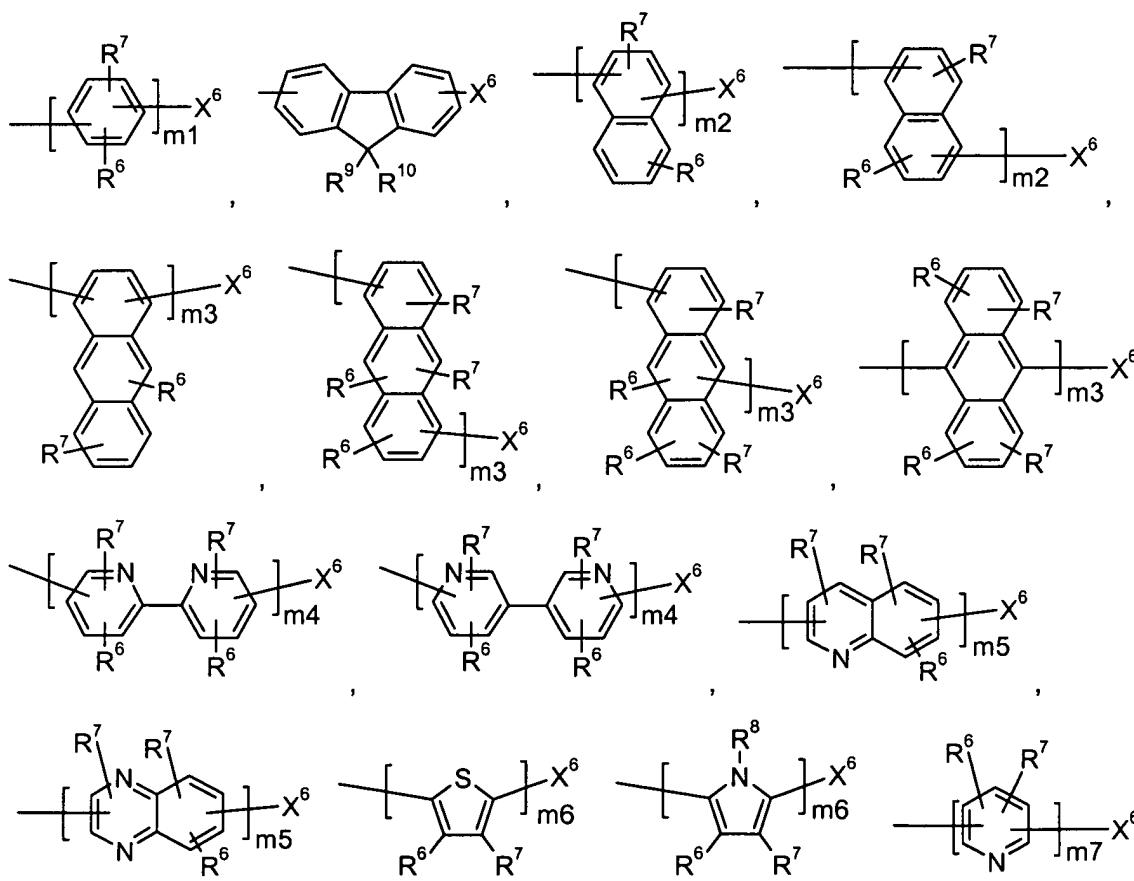
14 .(withdrawn) An optical device according to claim 13, wherein the electroluminescent device comprises

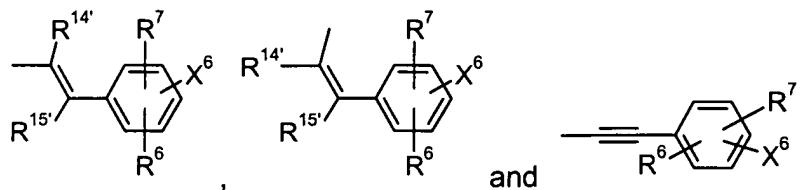
- (a) a charge injecting layer for injecting positive charge carriers,
- (b) a charge injecting layer for injecting negative charge carriers,
- (c) a light-emissive layer located between the layers (a) and (b) comprising a polymer according to claim 1.

15. (cancelled)



16. (withdrawn) A polymer according to claim 3, wherein when R^1 or R^2 is $\text{R}^{14'}-\text{CH}=\text{CH}-\text{X}^4-\text{R}^{15'}$, $\text{C}_6\text{-C}_{24}\text{aryl}$ or $\text{C}_2\text{-C}_{20}\text{heteroaryl}$, it is selected from the group consisting of the formulae





wherein m1, m2, m3, m4, m5, m6 and m7 are integers of 1 to 10,

X⁶ is H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₃₀aryl, which optionally can be substituted, C₂-C₂₆heteroaryl, which optionally can be substituted, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, or C₇-C₂₅aralkyl,

R¹¹, R¹² and R¹³ are independently of each other H, C₁-C₁₈ alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, or C₇-C₂₅aralkyl.

17-21. (cancelled)